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Abstract

Cancellation of non-stationary interferer signals
for speech recognition

System for cancellation of non-stationary interfering
5 signals, particularly for use for mitigating effects of such
interferers produced by in-car entertainment (ECAD) devices
for speech recognition applications. The system spectrally
analyses signals output by the ECAD before and after they
are passed through an in-car acoustic channel. A model of
10 the acoustic channel is built by the system's algorithm.
For speech recognition the model is spectrally subtracted
from a signal received at a microphone in order to recover
a wanted speech signal. The acoustic channel model is built
by estimating frequency domain acoustic transfer functions
15 between each loudspeaker used by the ECAD and the micro-
phone.

Figure 1.

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